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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/888,884	06/25/2001	Ari Tourunen	324-010379-US(PAR)	1180
2512 7590 01/19/2007 PERMAN & GREEN		·	EXAMINER	
425 POST ROAD			MEHRA, INDER P	
FAIRFIELD, CT 06824			. ART UNIT	PAPER NUMBER
2.5			2617	
SHORTENED STATUTORY PERIOD OF RESPONSE		MAIL DATE	DELIVERY MODE	
3 MONTHS		01/19/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

		Application No.	Applicant(s)
		09/888,884	TOURUNEN ET AL.
	Office Action Summary	Examiner	Art Unit
		Inder P. Mehra	2617
Period fo	The MAILING DATE of this communication ap or Reply	pears on the cover sheet w	with the correspondence address
A SH THE - Exte after - If the - If NC - Failu Any	MAILING DATE OF THIS COMMUNICATION. Insions of time may be available under the provisions of 37 CFR 1. SIX (6) MONTHS from the mailing date of this communication. It is period for reply specified above is less than thirty (30) days, a reproposed for reply is specified above, the maximum statutory period ure to reply within the set or extended period for reply will, by statut reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a soly within the statutory minimum of the will apply and will expire SIX (6) MC te, cause the application to become a	a reply be timely filed airty (30) days will be considered timely. DNTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).
Status			
1)⊠	Responsive to communication(s) filed on 06 N	November 2006.	
2a)⊠		s action is non-final.	
3)	Since this application is in condition for allower		tters, prosecution as to the merits is
	closed in accordance with the practice under		
Dispositi	ion of Claims		
4)⊠	Claim(s) <u>1-16</u> is/are pending in the application	1	
	4a) Of the above claim(s) is/are withdra		
	Claim(s) is/are allowed.		
· —	Claim(s) 1,8,11 and 16 is/are rejected.		
	Claim(s) <u>2-7,9,10 and 12-15</u> is/are objected to).	
	Claim(s) are subject to restriction and/o		
Applicati	ion Papers		
9)□	The specification is objected to by the Examine	or	
	The drawing(s) filed on 29 September 2000 is/		Objected to by the Examiner
14,23	Applicant may not request that any objection to the	-	
	Replacement drawing sheet(s) including the correct		
11)	The oath or declaration is objected to by the E		
	under 35 U.S.C. § 119		
_	_		0.440() () ()
_	Acknowledgment is made of a claim for foreigr	n priority under 35 U.S.C.	§ 119(a)-(d) or (t).
a)L		to have been received	
	1. Certified copies of the priority document2. Certified copies of the priority document		Annikaskan Ni
	3. Copies of the certified copies of the price application from the International Burea		received in this National Stage
* S	See the attached detailed Office action for a list		t received
· ·		. o. the confined copies 110	r roogiveu.
Attachment			
	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948)		Summary (PTO-413)
	e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08)		(s)/Mail Date Informal Patent Application (PTO-152)
Paper	r No(s)/Mail Date	6) Other:	

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DETAILED ACTION

1. This office action is in response to amendment dated: 11/6/06. Claims 1-16 are pending. Based on this amendment, claims 1, 8, 11, and 16 are amended.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1, 8, 11 rejected under 35 U.S.C. 103(a) as being unpatentable over Forslow (US Patent No. 6,608,832), hereinafter, Forslow, in view of Titmuss (US Patent No. 6,522,883), further in view of Yang (US Patent Application No. 2004/0095939).

For claims 1, 8 11 and 16, Forslow discloses "a method of allocating data transmission resources (refer to "a base station controller (BSC) 34 which manages the allocation and deallocation of radio resources", fig. 2, refer to col. 2 lines 50-55), in a packet-switched telecommunications system (51 in fig. 2) including a terminal 12 and a fixed network 35 (PSTN, refer to col. 2 lines 18-20 and lines 60-63), to which an operational entity defined for defining resources for a radio bearer (refer to "Mobile communication resources for the selected bearer and corresponding quality of service parameters may be reserved in advance for each application flow (the resource reservation approach), refer to col. 5 line 65-col. 6 line 15), the method comprising steps in order:

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defining a compression method of header fields in data packets used on
the radio bearer (Forslow discloses, "The subnetwork dependence
convergence protocol (SNDCP) provides segmentation and
compression of headers and data between the mobile station and the
SGSN in the GPRS. refer to col. 12 lines 28-34), and

defining the radio bearer resources for the terminal on the basis of an application used by the terminal said radio bearer such manner (Forslow discloses, ""the selection of a particular type of bearer and mapping of quality of service parameters, refer to col. 12 lines 35-37, further, discloses, "Mobile communication resources for the selected bearer and corresponding quality of service parameters may be reserved (defined) --- for each application flow (the resource reservation approach, refer to col. 6 lines 7-15), that said resources also comprise the capacity required by the selected compression method of header fields in data packets (Refer to "a Base Station System GPRS Protocol (BSSGP) is a flow control protocol, which allows the base station system to start and stop PDUs sent by the SGSN. This ensures that the BSS is not flooded by packets in case the radio link capacity is reduced", refer to col. 4 lines 34-39).

Forslow does not disclose explicitly the following limitation, which are disclosed by Titmuss and Yang, as follows:

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"that said resources also comprise the capacity required by the selected compression method of header fields in data packets", (Titmus discloses "technical capacities collectively available from the plurality of resources with which it is associated", refer to col. 20 lines 35-40).

defining a compression method of header fields (Yang discloses, "a protocol is defined to compress the RTP/UDP/IP headers and a reduction to between 2 to 5 bytes can be achieved", refer to paragraph 0018. This results in saving bandwidth or capacity which is more than the required bandwidth)---said compression method requiring a bi-directional connection (Yang discloses, refer to paragraph 0094, "the RTP agent (up line direction) performs a role similar to the IP/PSTN gateway: for the up link direction, the voice frames from a mobile station are transmitted without any IP/UDP/RTP headers, in a way very close to the circuit-mode voice in wireless networks, e.g. in GSM (which is compression),---, up to the RTP agent which adds proper headers and sends them off to VoIP networks. On the downlink direction, the RTP agent strip off the headers and transmit them up to the mobile station (same as compression in opposite direction), refer to paragraph 0094. Further, Yang discloses, "For the downlink direction, the CD (compressor/ decompressor) in the network checks each packet to see if it belongs to a RTP session being compressed. If yes the RTP/UDP/IP headers are stripped off and the speech data

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is put into the payload of, for example, the tunnelling protocol addressed to the right mobile terminal, see paragraph 0106. Yang further, discloses, "the decompressor checks at the beginning of every sampling duration period --- to see if there is any compressed speech packet coming from RAN (same as uplink or opposite direction). If "yes" the decompressor adds IP/UDP/RTP headers on the packet. The decompressor maintains a small buffer for incoming speech packets from RAN to smooth out the jitter", refer to paragraph 0108.

It would have been obvious to the person of ordinary skill in the art at the time of the invention to have resources comprising the capacity required by the selected compression method of header fields in data packets, as taught by Titmuss; further, defining a compression method of header fields, as taught by Yang. The motivation to do so being that it provides optimization of transmission resources and reduction of bytes..

Allowable Subject Matter

4. Claims 2-7, 9-10, and 12-15 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Response to Arguments

5. Applicant's arguments with respect to claims 1-16 have been considered, but they are not persuasive.

Applicant argues "The noted claims are amended to recite defining a compression of header fields "requiring a bi-directional connection." (see e.g. page 9, paragraph [0026]) This feature is not disclosed or suggested by the combination of Forslow, Titmus and Yang.

Applicant, further, argues, "Forslow is silent as to the capacity of the defined header field compression method.

In response, examiner states that Yang discloses "Yang discloses, "a protocol is defined to compress the RTP/UDP/IP headers and a reduction to between 2 to 5 bytes (same as capacity) can be achieved", refer to paragraph 0018. This results in saving bandwidth or capacity which is more than the required bandwidth. Further, for many radio networks in which the radio bearer capacity is designed for circuit voice service so the link layer PDU size is designed to match voice payload.

Applicant argues "Furthermore, the combination of references does not disclose or suggest that a header compression method is defined first and then the radio bearer resources for the terminal are defined".

In response, Examiner states, "Yang discloses, "General benefits of the arrangement are that there is higher <u>compression</u> gain and saving of <u>resources</u> (whis is redefinition of <u>resources</u>); that the system operates when the round-trip-time between <u>compression</u> and decompression is long; and that the benefits from IP-based call signalling can be kept, refer to paragraph 0049.

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Further, examiner states that Forslow discloses in continuation, "selection of particular type of bearer and mapping of quality of service parameters may be performed", refer to col. 12 lines 36-38

It is logical to compress header first in order to save bytes and then evaluate/define radio bearer resources which comprise the capacity required by the defined compression method of header field.

"Titmus discloses "technical <u>capacities</u> collectively available from the plurality of <u>resources</u> with which it is associated", refer to col. 20 lines 35-40.

AS explained earlier, examiner, further states that Forslow discloses "segmentation and compression headers, refer to col. 12 lines 30-32. Further, examiner states that Forslow discloses in continuation, "selection of particular type of bearer and mapping of quality of service parameters may be performed", refer to col. 12 lines 36-38. Examiner, further states that Yang discloses, "a protocol is defined to compress the RTP/UDP/IP headers and a reduction to between 2 to 5 bytes can be achieved", refer to paragraph 0018. This results in saving bandwidth or capacity which is more than the required bandwidth".

In light of above explanation, arguments by applicant are not persuasive.

6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO

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MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Conclusion

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Inder P. Mehra whose telephone number is 571-272-3170. The examiner can normally be reached on Monday through Friday from 8AM to 5PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph Feild can be reached on 571-272-4090. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

nder Pal Mehra 1/15/06 Inder P Mehra

Examiner
Art Unit 2617

JOHN PEZZLO

PIMARY EXAMINER